

US009409090B1

(12) United States Patent

McKenzie et al.

(54) ENHANCING USER EXPERIENCE BY PRESENTING PAST APPLICATION USAGE

(71) Applicant: **Amazon Technologies, Inc.**, Reno, NV

(72) Inventors: Bruce J. McKenzie, Murrieta, CA (US);
Adam J. Overton, Redmond, WA (US);
Brian D. Fisher, Irvine, CA (US); Isaac
J. Shepard, Ladera Ranch, CA (US);
Eden Ashley JnBaptiste, Orlando, FL
(US); Eric M. Zhang, Fremont, CA
(US); Jason C. Jenks, Lynnwood, WA
(US); Patrick G. McCuller, Seattle, WA
(US)

(73) Assignee: **Amazon Technologies, Inc.**, Seattle, WA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 14/143,795

(22) Filed: Dec. 30, 2013

Related U.S. Application Data

- (63) Continuation of application No. 12/964,225, filed on Dec. 9, 2010, now Pat. No. 8,622,839.
- (51) Int. Cl. A63F 13/00 (2014.01)A63F 13/497 (2014.01)H04L 29/06 (2006.01)A63F 13/5375 (2014.01)A63F 13/42 (2014.01)A63F 13/355 (2014.01)A63F 13/86 (2014.01)(Continued)

(10) Patent No.:

US 9,409,090 B1

(45) **Date of Patent:**

*Aug. 9, 2016

(52) U.S. Cl.

(58) Field of Classification Search

(56) References Cited

U.S. PATENT DOCUMENTS

OTHER PUBLICATIONS

Unreal Tournament 1999, http://www.fingel.com/ut/, retrieved Jan. 25, 2013, 4 pages.

(Continued)

Primary Examiner — Justin Myhr (74) Attorney, Agent, or Firm — Thomas | Horstemeyer, LLP

(57) ABSTRACT

Past usage of an application is presented in order to enhance the experience of a user with an application. An application is executed in a hosted environment in one or more computing devices. Input commands may be obtained from a client and provided to the application. A real-time state of the application may be recorded as the application is executed in the hosted environment. The real-time state of the application that has been recorded may be replayed.

20 Claims, 5 Drawing Sheets

